



## IT8700 series DC Electronic Load



The IT8700 series is a multi-channel programmable DC electronic load system. It is configured by installing user-selectable modules into the mainframe. Support up to a total of 16 channels. With programming and remote control capabilities via built-in USB, RS232, LAN or GPIB interface. It can be used in one of five different operation modes: CC/CR/CV/CW/CZ.

## Specifications

Parameter		IT8731	
Rated value (0 °C - 40 °C)	Voltage	0~80V	
	Current	0~4A	0~40A
	Power	200W	
	MOV	0.1V/4A	1V/40A
CV Mode	Range	0~18V	0~80V
	Resolution	1mV	10mV
	Accuracy	±(0.05%+0.02%FS)	±(0.05%+0.025%FS)
CC Mode	Range	0~4A	0~40A
	Resolution	0.1mA	1mA
	Accuracy	±(0.05%+0.05%FS)	±(0.05%+0.05%FS)
CR Mode	Range	0.05Ω~10Ω	10Ω~7.5KΩ
	Resolution	16bit	
	Accuracy	0.01%+0.08%S	0.01%+0.0008%S
CW Mode	Range	200W	
	Resolution	10mW	
	Accuracy	±(0.2%+0.2%FS)	
Dynamic mode(CC mode)	T1&T2	20μs~3600s/Res:1μs	
	Accuracy	5μs±100ppm	
	Up/down slope	0.0001~0.25A/μs	0.001~2.5A/μs
<b>Measuring range</b>			
Readback Voltage	Range	0~18V	0~80V
	Resolution	0.1 mV	1mV
	Accuracy	±(0.025%+0.025%FS)	±(0.025%+0.025%FS)
Readback Current	Range	0~4A	0~40A
	Resolution	0.01mA	0.1mA
	Accuracy	±(0.05%+0.05%FS)	
Readback Power	Range	200W	
	Resolution	10mW	
	Accuracy	±(0.1%+0.1%FS)	
<b>Protection range</b>			
OPP		≒ 200W	
OCP		≒ 4.4A	≒ 44A
OVP		≒ 82V	
OTP		≒ 85°C	
<b>Specification</b>			
Short circuit	CC	≒ 4.4/4A	≒ 44/40A
	CV	0V	0V
	CR	≒ 25mΩ	≒ 25mΩ
Input impedance	300KΩ		
Dimension	82mmW*183mmH*573mmD		

## Feature

- CC/CV/CR/CW/CZ operating modes
- Removable modules for easy system flexibility
- Power range up to 2400 W (4800 W with mainframe extension)
- Supports up to 16 channels with mainframe extension
- Synchronous load on/off function
- 16-bit voltage and current metering providing high resolution of 0.1 mV and 0.01 mA
- Transient mode up to 25 kHz
- List mode (sequence mode) – minimum 20 μs step width with 84 user programmable steps
- Adjustable slew rate in CC mode
- Automatic test function
- 100 memory areas to save/recall setting parameters
- Standard LAN, GPIB, USB, and RS-232 interface with SCPI protocol support
- OVP/OCP/OPP/OTP and reverse voltage protection

## Standard accessories

- Power cord
- Calibration report
- User's manual